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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0609.454003/TJS/FRC	APPLICATION NO. 09/972,913
		FIRST NAMED INVENTOR <i>Bush et al.</i>	
		FILING DATE October 10, 2001	ART UNIT 1615

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
q/s	AAI	5,373,021	12/13/1994	Marangos			04/26/1993
	ABI	5,688,516	11/18/1997	Raad <i>et al.</i>			10/03/1994
	ACI	5,688,651	11/18/1997	Solomon			12/16/1994
	ADI	5,705,401	01/06/1998	Masters <i>et al.</i>			09/16/1994
	AEI	5,721,106	02/24/1998	Maggio <i>et al.</i>			09/12/1994
	AFI	5,980,914	11/09/1999	Gerolymatos			02/13/1998
	AGI	5,994,323	11/30/1999	Gerolymatos			02/13/1998
	AH1	6,001,852	12/14/1999	Gerolymatos			02/13/1998
	AII	6,323,218	11/27/2001	Bush <i>et al.</i>			03/11/1998
q/s	AJ1	2002/0082273	06/27/2002	Bush <i>et al.</i>			09/21/2001
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
q/s	ALI	WO 92/18111	10/29/1992	WIPO			Yes No
	AMI	WO 93/10459	05/27/1993	WIPO			Yes No
	ANI	WO 93/24451	12/09/1993	WIPO			Yes No
	AOI	WO 94/04167	03/03/1994	WIPO			Yes No
q/s	API	WO 95/31199	11/23/1995	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

q/s	AR	1	Assaf, S.Y., and Chung, S-H., "Release of endogenous Zn <sup>2+</sup> from brain tissue during activity," <i>Nature</i> 308:734-736, Nature Publishing Group (April 1984)
q/s	AS	1	Atwood, C.S., <i>et al.</i> , "Dramatic Aggregation of Alzheimer A $\beta$ by Cu(II) Is Induced by Conditions Representing Physiological Acidosis," <i>J. Biol. Chem.</i> 273:12817-12826, American Society for Biochemistry and Molecular Biology (May 1998)
q/s	AT	1	Bacon, P.A., <i>et al.</i> , "Rheumatoid Disease, Amyloidosis and its Treatment with Penicillamine," <i>Eur. J. Rheum. Inflamm.</i> 2:70-74, Cameron Publishers (1979)

EXAMINER <i>Juneca W. Meek</i>	DATE CONSIDERED <i>9/27/04</i>
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		FIRST NAMED INVENTOR Bush <i>et al.</i>	
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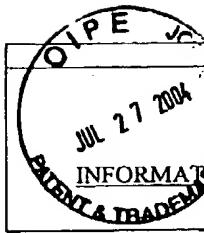
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Q/S	AL2	WO 96/07096	03/07/1996	WIPO			Yes
	AM2	WO 96/12544	05/02/1996	WIPO			No
	AN2	WO 96/28471	09/19/1996	WIPO			Yes
	AO2	WO 97/04794	02/13/1997	WIPO			No
Q/S	AP2	WO 97/09976	03/20/1997	WIPO			Yes
							No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Q/S	AR	2	Barrow, C.J., and Zagorski, M.G., "Solution Structures of $\beta$ Peptide and Its Constituent Fragments: Relation to Amyloid Deposition," <i>Science</i> 253:179-182, American Association for the Advancement of Science (July 1991)
Q/S	AS	2	Barrow, C.J., <i>et al.</i> , "Solution Conformations and Aggregational Properties of Synthetic Amyloid $\beta$ -Peptides of Alzheimer's Disease," <i>J. Mol. Biol.</i> 225:1075-1093, Academic Press (June 1992)
Q/S	AT	2	Basun, H., <i>et al.</i> , "Metals and trace elements in plasma and cerebrospinal fluid in normal ageing and Alzheimer's disease," <i>J. Neural Transm. [P-D Sect.]</i> 3:231-258, Springer-Verlag (1991)

EXAMINER	<i>Amesia Y.-Reich</i>	DATE CONSIDERED	<i>9/27/04</i>
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Bush *et al.*

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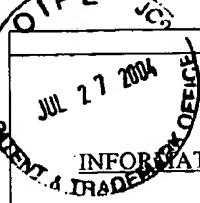
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Q/S	AL3	WO 97/36885	10/09/1997	WIPO			Yes No
Q/S	AM3	WO 98/06403	02/19/1998	WIPO			Yes No
Q/S	AN3	WO 98/40071	09/17/1998	WIPO			Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Q/S	AR	3	Behl, C., <i>et al.</i> , "Hydrogen Peroxide Mediates Amyloid $\beta$ Protein Toxicity," <i>Cell</i> 77:817-827, Cell Press (June 1994)
Q/S	AS	3	Biaglow, J.E., and Kachur, A.V., "The Generation of Hydroxyl Radicals in the Reaction of Molecular Oxygen with Polyphosphate Complexes of Ferrous Ion," <i>Radiat. Res.</i> 148:181-187, Kluge Carden Jennings Pub. Co. (August 1997)
Q/S	AT	3	Boado, R.J., <i>et al.</i> , "Drug Delivery of Antisense Molecules to the Brain for Treatment of Alzheimer's Disease and Cerebral AIDS," <i>J. Pharm. Sci.</i> 87:1308-1315, American Pharmaceutical Association (November 1998)

EXAMINER	<i>Junieca H. Cheek</i>		DATE CONSIDERED
EXAMINER:	<i>Junieca H. Cheek</i>		9/27/04

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	4	Borman, S., "Diverse Strategies Emerge For Diagnosing Alzheimer's Disease," <i>Chem. Eng. News</i> 272:33-34, American Chemical Society (June 1996)
<i>Q/S</i>	AS	4	Bruce, A.J., et al., "β-Amyloid toxicity in organotypic hippocampal cultures: Protection by EUK-8, a synthetic catalytic free radical scavenger," <i>Proc. Natl. Acad. Sci. USA</i> 93:2312-2316, National Academy of Sciences (March 1996)
<i>Q/S</i>	AT	4	Burdick, D., et al., "Assembly and Aggregation Properties of Synthetic Alzheimer's A4/β Amyloid Peptide Analogs," <i>J. Biol. Chem.</i> 267:546-554, American Society for Biochemistry and Molecular Biology (January 1992)

EXAMINER

*Duneca M. Sheinkin*

DATE CONSIDERED

*9/27/04*

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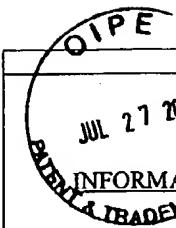
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	AN						Yes
	AO						No
	AP						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>AS</i>	AR	5	Burns, J.A., <i>et al.</i> , "Selective Reduction of Disulfides by Tris(2-carboxyethyl)phosphine," <i>J. Org. Chem.</i> 56:2648-2650, American Chemical Society (April 1991)
<i>AS</i>	AS	5	Busciglio, J., and Yankner, B.A., "Apoptosis and increased generation of reactive oxygen species in Down's Syndrome neurons <i>in vitro</i> ," <i>Nature</i> 378:776-779, Nature Publishing Co. (December 1995)
<i>AS</i>	AT	5	Bush, A.I., <i>et al.</i> , "A Novel Zinc(II) Binding Site Modulates the Function of the $\beta$ A4 Amyloid Protein Precursor of Alzheimer's Disease," <i>J. Biol. Chem.</i> 268:16109-16112, American Society for Biochemistry and Molecular Biology (August 1993)

EXAMINER *Kimberly M. Wright* DATE CONSIDERED *9/27/04*

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	6	Bush, A.I., et al., "Modulation of A $\beta$ Adhesiveness and Secretase Site Cleavage by Zinc," <i>J. Biol. Chem.</i> 269:12152-12158, American Society for Biochemistry and Molecular Biology (April 1994)
<i>Q/S</i>	AS	6	Bush, A.I., et al., "The Amyloid $\beta$ -Protein Precursor and Its Mammalian Homologues," <i>J. Biol. Chem.</i> 269:26618-26621, American Society for Biochemistry and Molecular Biology (October 1994)
<i>Q/S</i>	AT	6	Bush, A.I., et al., "Rapid Induction of Alzheimer A $\beta$ Amyloid Formation by Zinc," <i>Science</i> 265:1464-1467, American Association for the Advancement of Science (September 1994)

EXAMINER

*Dunera Y-Sheikh*

DATE CONSIDERED

*9/27/04*

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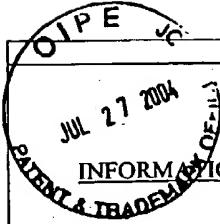
<p style="text-align: right;">JUL 27 2004 U.S. PATENT AND TRADEMARK OFFICE</p> <p>FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT</p>	ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
Q/S	AR	7	Bush, A.I., et al., Response to "Zinc and Alzheimer's Disease," <i>Science</i> 268:1920-1923, American Association for the Advancement of Science (June 1995)				
Q/S	AS	7	Butterfield, D.A., et al., " $\beta$ -Amyloid Peptide Free Radical Fragments Initiate Synaptosomal Lipoperoxidation in a Sequence-Specific Fashion: Implications to Alzheimer's Disease," <i>Biochem. Biophys. Res. Commun.</i> 200:710-715, Academic Press (April 1994)				
Q/S	AT	7	Butterfield, D.A., et al., "A $\beta$ (25-35) Peptide Displays H <sub>2</sub> O <sub>2</sub> -Like Reactivity Towards Aqueous Fe <sup>2+</sup> , Nitroxide Spin Probes, and Synaptosomal Membrane Proteins," <i>Life Sci.</i> 58:217-228, Pergamon Press (1996)				

EXAMINER <i>Anneka M. Sheikh</i>	DATE CONSIDERED <i>9/27/04</i>
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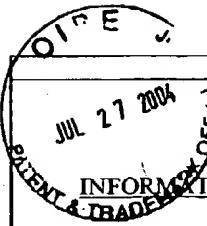
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	§	Cherny, R.A., et al., "The Aggregation of A $\beta$ in Human Brain is Mediated by Zinc," <i>Abstr. Soc. Neurosci.</i> 23:534, Society For Neuroscience (October 1997)
<i>Q/S</i>	AS	§	Chong, Y.-H., and Suh, Y.-H., "Aggregation of amyloid precursor proteins by aluminum in vitro," <i>Brain Research</i> 670:137-141, Elsevier/North-Holland Biomedical Press (January 1995)
<i>Q/S</i>	AT	§	Colaco, C.A.L.S., et al., "The role of the Maillard reaction in other pathologies: Alzheimer's disease," <i>Nephrol. Dial. Transplant.</i> 11(Suppl. 5):7-12, Springer International (1996)

EXAMINER	<i>Juneau Y. Shieh</i>	DATE CONSIDERED	<i>9/27/04</i>
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<i>AS</i>	AR	9	Connor, J.R., <i>et al.</i> , "A Histochemical Study of Iron, Transferrin, and Ferritin in Alzheimer's Diseased Brains," <i>J. Neurosci. Res.</i> 31:75-83, Wiley Interscience (January 1992)
<i>AS</i>	AS	9	Connor, J.R., <i>et al.</i> , "Ceruloplasmin levels in the human superior temporal gyrus in aging and Alzheimer's disease," <i>Neurosci. Lett.</i> 159:88-90, Elsevier/North-Holland (September 1993)
<i>AS</i>	AT	9	Coyle, J.T., and Puttfarcken, P., "Oxidative Stress, Glutamate, and Neurodegenerative Disorders," <i>Science</i> 262:689-695, American Association for the Advancement of Science (October 1993)

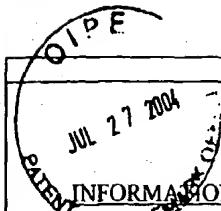
EXAMINER

*Yvonne V. Neidau*

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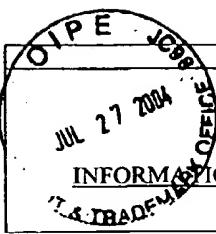
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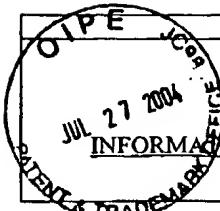
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<i>q/s</i>	AR	10	Crapper McLachlan, D.R., <i>et al.</i> , "Intramuscular desferrioxamine in patients with Alzheimer's disease," <i>Lancet</i> 337:1304-1308, Lancet Publishing Group (June 1991)
<i>q/s</i>	AS	10	Cuajungco, M.P., and Lees, G.J., "Zinc and Alzheimer's disease: is there a direct link?" <i>Brain Res. Rev.</i> 23:219-236, Elsevier Science B.V. (April 1997)
<i>q/s</i>	AT	10	Dedman, D.J., <i>et al.</i> , "Iron and aluminum in relation to brain ferritin in normal individuals and Alzheimer's-disease and chronic renal-dialysis patients," <i>Biochem J.</i> 287:509-514, UK Biochemical Society (1992)

EXAMINER	<i>Vincent H. Sheehan</i>	DATE CONSIDERED	<i>9/27/04</i>
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	AP						Yes
							No
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<i>AS</i>	AR	11	Deibel, M.A., et al., "Copper, iron, and zinc imbalances in severely degenerated brain regions in Alzheimer's disease: possible relation to oxidative stress," <i>J. Neurol. Sci.</i> 143:137-142, Elsevier (November 1996)				
<i>AS</i>	AS	11	Doré, S., et al., "Insulin-like growth factor I protects and rescues hippocampal neurons against $\beta$ -amyloid- and human amylin-induced toxicity," <i>Proc. Natl. Acad. Sci. USA</i> 94:4772-4777, National Academy of Sciences (April 1997)				
<i>AS</i>	AT	11	Dryks, T., et al., "Amyloidogenicity of $\beta$ A4 and $\beta$ A4-bearing Amyloid Protein Precursor Fragments by Metal-catalyzed Oxidation," <i>J. Biol. Chem.</i> 267:18210-18217, American Society for Biochemistry and Molecular Biology (September 1992)				
EXAMINER	<i>Kunera H. Phelan</i>				DATE CONSIDERED <i>9/27/04</i>		
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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Q/S</i>	AR	<u>12</u>	Ehmann W.D., <i>et al.</i> , "Brain Trace Elements in Alzheimer's Disease," <i>NeuroToxicology</i> 7:197-206, Elsevier Science (1986)
<i>Q/S</i>	AS	<u>12</u>	Esler, W.P., <i>et al.</i> , "Zinc-Induced Aggregation of Human and Rat $\beta$ -Amyloid Peptides In Vitro," <i>J. Neurochem.</i> 66:723-732, Blackwell Science (February 1996)
<i>Q/S</i>	AT	<u>12</u>	Esler, W.P., <i>et al.</i> , "A $\beta$ deposition inhibitor screen using synthetic amyloid," <i>Nat. Biotechnol.</i> 15:258-263, Nature Publishing Co. (March 1997)

EXAMINER

*Junea Y.-Sheehan*

DATE CONSIDERED

*9/27/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE STATEMENT

		ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
		FIRST NAMED INVENTOR Bush <i>et al.</i>	
		FILING DATE October 10, 2001	ART UNIT 1615

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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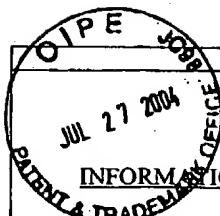
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	AN						Yes No
	AO						Yes No
	AP						Yes No

#### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>gjs</i>	AR	<u>13</u>	Fitzgerald, D.J., "Zinc and Alzheimer's Disease," <i>Science</i> 268:1920, American Association for the Advancement of Science (June 1995)
<i>gjs</i>	AS	<u>13</u>	Fraser, P.E., <i>et al.</i> , "pH-dependent structural transitions of Alzheimer amyloid peptides," <i>Biophys. J.</i> 60:1190-1201, Rockefeller University Press (November 1991)
<i>gjs</i>	AT	<u>13</u>	Frederikse, P.H., <i>et al.</i> , "Oxidative Stress Increases Production of $\beta$ -Amyloid Precursor Protein and $\beta$ -Amyloid ( $A\beta$ ) in Mammalian Lenses, and $A\beta$ Has Toxic Effects on Lens Epithelial Cells," <i>J. Biol. Chem.</i> 271:10169-10174, American Society for Biochemistry and Molecular Biology (April 1996)

EXAMINER	<i>Juneca H. Sheehan</i>	DATE CONSIDERED	<i>9/27/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

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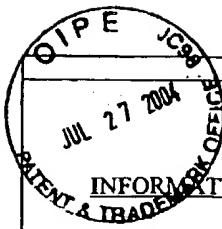
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	AP						Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	<u>14</u>	Frederickson, C.J., "Neurobiology of Zinc and Zinc-Containing Neurons," <i>Int. Rev. Neurobiol.</i> 31:145-238, Academic Press (1989)
<i>Q/S</i>	AS	<u>14</u>	Frieden, E., "Ceruloplasmin: A Multi-functional Cupro-protein of Vertebrate Plasma," in <i>Inflammatory Diseases and Copper</i> , Sorenson, J.R.J., ed., Humana Press, Clifton, N.J., pp.159-169 (1982)
<i>Q/S</i>	AT	<u>14</u>	Giampaolo, V., "Copper and Inflammation," in: <i>Inflammatory Diseases and Copper</i> , Sorenson, J.R.J., ed., Humana Press, Clifton, N.J., pp. 329-345 (1982)

EXAMINER	<i>Hernera M. Sheehan</i>	DATE CONSIDERED
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	AP						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>of</i>	AR	<u>15</u>	Giulian, D., et al., "Specific Domains of $\beta$ -Amyloid from Alzheimer Plaque Elicit Neuron Killing in Human Microglia," <i>J. Neurosci.</i> 16:6021-6037, Society for Neuroscience (October 1996)
<i>of 8</i>	AS	<u>15</u>	Glenner, G.G., and Wong, C.W., "Alzheimer's Disease: Initial Report of the Purification and Characterization of Novel Cerebrovascular Amyloid Protein," <i>Biochem. Biophys. Res. Commun.</i> 120: 885-890, Academic Press (May 1984)
<i>of 8</i>	AT	<u>15</u>	Golde, T.E., et al., "Processing of the Amyloid Protein Precursor to Potentially Amyloidogenic Derivatives," <i>Science</i> 255:728-730, American Association for the Advancement of Science (February 1992)

EXAMINER

*Amelia Y. Sheehan*

DATE CONSIDERED

*9/27/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

JUL 27 2001  
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INVENTOR INFORMATION STATEMENT

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
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	AO						No
	AP						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>js</i>	AR	<u>16</u>	Good, P.F., <i>et al.</i> , "Selective Accumulation of Aluminum and Iron in the Neurofibrillary Tangles of Alzheimer's Disease: A Laser Microprobe (LAMMA) Study," <i>Ann. Neurol.</i> 31:286-292, Wiley-Liss (March 1992)
<i>js</i>	AS	<u>16</u>	Goodman, Y., <i>et al.</i> , "Nordihydroguaiaretic acid protects hippocampal neurons against amyloid $\beta$ -peptide toxicity, and attenuates free radical and calcium accumulation," <i>Brain Res.</i> 654:171-176, Elsevier/North-Holland (August 1994)
<i>js</i>	AT	<u>16</u>	Goodman, Y., and Mattson, M.P., "Secreted Forms of $\beta$ -Amyloid Precursor Protein Protect Hippocampal Neurons against Amyloid $\beta$ -Peptide-Induced Oxidative Injury," <i>Exp. Neurol.</i> 128:1-12, Academic Press (July 1994)

EXAMINER	<i>Juliana Y. Sheikh</i>	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		



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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Q/S</i>	AR	17	Gorevic, P.D., <i>et al.</i> , "The Biological Significance of Amyloid," <i>Ann. NY Acad. Sci.</i> 389:380-394, New York Academy Of Sciences (1982)				
<i>Q/S</i>	AS	17	Grundke-Iqbali, I., <i>et al.</i> , "Ferritin is a component of the neuritic (senile) plaque in Alzheimer dementia," <i>Acta Neuropathol.</i> 81:105-110, Springer Verlag (December 1990)				
<i>Q/S</i>	AT	17	Gutteridge, J.M.C., and Wilkins, S., "Copper Salt-Dependent Hydroxyl Radical Formation Damage to Proteins Acting as Antioxidants," <i>Biochim. Biophys. Acta</i> 759:38-41, Elsevier (August 1983)				

EXAMINER	<i>Janice V. Phelan</i>	DATE CONSIDERED	<i>9/27/04</i>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

#### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>q/s</i>	AR	<u>18</u>	Haass, C., <i>et al.</i> , "Amyloid $\beta$ -peptide is produced by cultured cells during normal metabolism," <i>Nature</i> 359:322-325, Nature Pub. Co. (September 1992)
<i>q/s</i>	AS	<u>18</u>	Haley, J.V., "Zinc Sulfate and Wound Healing," <i>J. Surg. Res.</i> 27:168-174, Academic Press (September 1979)
<i>q/s</i>	AT	<u>18</u>	Halliwell, B., and Gutteridge, J.M.C., "Oxygen toxicity, oxygen radicals, transition metals and disease," <i>Biochem. J.</i> 219:1-14, UK Biochemical Society (April 1984)

EXAMINER	<i>Quimera Y. Sheikha</i>	DATE CONSIDERED	<i>9/27/04</i>
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		ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
INFORMATION DISCLOSURE STATEMENT		FIRST NAMED INVENTOR Bush et al.	
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

#### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>g/s</i>	AR	19	Halliwell, B., "Reactive Oxygen Species and the Central Nervous System," <i>J. Neurochem.</i> 59:1609-1623, Blackwell Science (November 1992)
<i>g/s</i>	AS	19	Han, J., et al., "Quantitation of Hydrogen Peroxide Using Tris(2-carboxyethyl)phosphine," <i>Anal. Biochem.</i> 234:107-109; Academic Press (February 1996)
<i>g/s</i>	AT	19	Han, J.C., and Han, G.Y., "A Procedure for Quantitative Determination of Tris(2-carboxyethyl)phosphine, an Odorless Reducing Agent More Stable and Effective Than Dithiothreitol," <i>Anal. Biochem.</i> 220:5-10, Academic Press (July 1994)

EXAMINER	<i>Quincea Y. Sheehan</i>	DATE CONSIDERED	<i>9/27/04</i>
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Appl. No. 09/972,913

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	AO						No
	AP						Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	<u>20</u>	Hansen, M.B., et al., "Re-examination and further development of a precise and rapid dye method for measuring cell growth/cell kill," <i>J. Immunol. Meth.</i> 119:203-210, North-Holland Pub. Co. (May 1989)
<i>Q/S</i>	AS	<u>20</u>	Harman, D., "Aging: A Theory Based on Free Radical and Radiation Chemistry," <i>J. Gerontol.</i> 2:298-300, Gerontological Society Of America (July 1956)
<i>Q/S</i>	AT	<u>20</u>	Harris, M.E., et al., "Direct Evidence of Oxidative Injury Produced by the Alzheimer's $\beta$ -Amyloid Peptide (1-40) in Cultured Hippocampal Neurons," <i>Exp. Neurol.</i> 131:193-202, Academic Press (February 1995)

EXAMINER	<i>Quincey V. Shultz</i>	DATE CONSIDERED	<i>9/23/04</i>
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APPN. NO. 09/972,915

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	<u>21</u>	Hensley, K., et al., "A model for beta-amyloid aggregation and neurotoxicity based on free radical generation by the peptide: Relevance to Alzheimer disease," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:3270-3274, National Academy of Sciences (April 1994)
<i>Q/S</i>	AS	<u>21</u>	Hensley, K., et al., "Brain Regional Correspondence Between Alzheimer's Disease Histopathology and Biomarkers of Protein Oxidation," <i>J. Neurochem.</i> 65:2146-2156, Blackwell Science (November 1995)
<i>Q/S</i>	AT	<u>21</u>	Hensley, K., et al., "Reactive Oxygen Species as Causal Agents in the Neurotoxicity of the Alzheimer's Disease-Associated Amyloid Beta Peptide," <i>Ann. NY Acad. Sci.</i> 786:120-134, New York Academy Of Sciences (1996)

EXAMINER

*Ammara M. Sheikh*

DATE CONSIDERED

*9/27/04*

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<p style="text-align: right;">O I P E JUL 27 2004 P R O C E D U R E S</p> <p>FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b></p>		ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
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<i>g/s</i>	AR	<u>22</u>	Hesse, L., et al., "The $\beta$ A4 amyloid precursor protein binding to copper," <i>FEBS Lett.</i> 349:109-116, Elsevier Science B.V. (July 1994)
<i>g/s</i>	AS	<u>22</u>	Hilbich, C., et al., "Aggregation and Secondary Structure of Synthetic Amyloid $\beta$ A4 Peptides of Alzheimer's Disease," <i>J. Mol. Biol.</i> 218:149-163, Academic Press (March 1991)
<i>g/s</i>	AT	<u>22</u>	Hilbich, C., et al., "Substitutions of Hydrophobic Amino Acids Reduce the Amyloidogenicity of Alzheimer's Disease $\beta$ A4 Peptides," <i>J. Mol. Biol.</i> 228:460-473, Academic Press (November 1992)

EXAMINER	<i>Jamea Y. Heink</i>	DATE CONSIDERED	<i>9/27/04</i>
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<i>Q/S</i>	AR	<u>23</u>	Hsu, J.M., et al., "Zinc Deficiency and Incorporation of <sup>14</sup> C-labeled Methionine into Tissue Proteins in Rats," <i>J. Nutr.</i> 99:425-432, American Institute Of Nutrition (December 1969)
<i>Q/S</i>	AS	<u>23</u>	Huang, X., et al., "Zinc-induced Alzheimer's A $\beta$ 1-40 Aggregation Is Mediated by Conformational Factors," <i>J. Biol. Chem.</i> 272:26464-26470, American Society for Biochemistry and Molecular Biology (October 1997)
<i>Q/S</i>	AT	<u>23</u>	Ida, N., et al., "Analysis of Heterogeneous $\beta$ A4 Peptides in Human Cerebrospinal Fluid and Blood by a Newly Developed Sensitive Western Blot Assay," <i>J. Biol. Chem.</i> 271:22908-22914, American Society for Biochemistry and Molecular Biology (September 1996)

EXAMINER

*Dunessa Y. Sheikh*

DATE CONSIDERED

*9/27/04*

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FORM PTO-1449

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<i>QF</i>	AR	<u>24</u>	Jarrett, J.T., <i>et al.</i> , "The Carboxy Terminus of the $\beta$ Amyloid Protein Is Critical for the Seeding of Amyloid Formation: Implications for the Pathogenesis of Alzheimer's Disease," <i>Biochemistry</i> . 32:4693-4697, American Chemical Society (May 1993)
<i>QF</i>	AS	<u>24</u>	Jarrett, J.T., and Lansbury, Jr., P.T., "Amyloid Fibril Formation Requires a Chemically Discriminating Nucleation Event: Studies of an Amyloidogenic Sequence from the Bacterial Protein OsmB," <i>Biochemistry</i> 31:12345-12352, American Chemical Society (December 1992)
<i>QF</i>	AT	<u>24</u>	Johnstone, E.M., <i>et al.</i> , "Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis," <i>Brain Res. Mol. Brain Res.</i> 10:299-305, Elsevier Science Publishers (July 1991)

EXAMINER

*Almena M. Scheid*

DATE CONSIDERED

*9/27/04*

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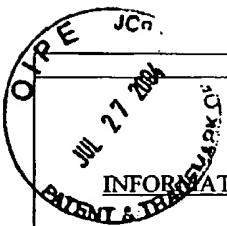
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AL						Yes
AM						No
AN						Yes
AO						No
AP						Yes

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Q/S</i>	AR	<u>25</u>	Joshi, J.G., "Iron and Aluminum Homeostasis in Neural Disorders," <i>Environ. Health Persp.</i> 102:207-213, National Institute of Environmental Health Sciences (1994)
<i>Q/S</i>	AS	<u>25</u>	Kang, J., <i>et al.</i> , "The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor," <i>Nature</i> 325:733-736, Nature Pub. Co. (February 1987)
<i>Q/S</i>	AT	<u>25</u>	Kawahara, M., <i>et al.</i> , "Alzheimer's Disease Amyloid $\beta$ -Protein Forms $Zn^{2+}$ -Sensitive, Cation-Selective Channels Across Excised Membrane Patches from Hypothalamic Neurons," <i>Biophys. J.</i> 73:67-75, Rockefeller University Press (July 1997)

EXAMINER	<i>Amneet Y. Sheelh</i>	DATE CONSIDERED <u>9/27/04</u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
FIRST NAMED INVENTOR Bush et al.	
FILING DATE October 10, 2001	ART UNIT 1615

## U.S. PATENT DOCUMENTS

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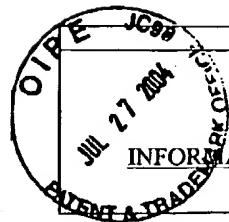
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Q/S</i>	AR	<u>26</u>	Kennard, M.L., et al., "Serum levels of the iron binding protein p97 are elevated in Alzheimer's disease," <i>Nat. Med.</i> 2:1230-1235, Nature Pub. Co. (November 1996)
<i>Q/S</i>	AS	<u>26</u>	Kidani, Y., et al., "Mass spectrometry of 5-chloro-7-iodo-8-quinolinol metal chelates," <i>Jpn. Analyst</i> 23:1375-1378 (1974)
<i>Q/S</i>	AT	<u>26</u>	Kirschner, D.A., et al., "Synthetic peptide homologous to $\beta$ protein from Alzheimer disease forms amyloid-like fibrils <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 84:6953-6957, National Academy of Sciences (October 1987)

EXAMINER	<i>Amelia Y. Phuah</i>		DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		<i>9/27/04</i>	



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AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>q/s</i>	AR	<u>27</u>	Kirshenbaum, K., and Daggett, V., "pH-Dependent Conformations of the Amyloid $\beta$ (1-28) Peptide Fragment Explored Using Molecular Dynamics," <i>Biochemistry</i> 34:7629-7639, American Chemical Society (June 1995)
<i>q/s</i>	AS	<u>27</u>	Kisilevsky, R., "Inflammation-Associated Amyloidogenesis," <i>Mol. Neurobiol.</i> 8:65-66, Humana Press (February 1994)
<i>q/s</i>	AT	<u>27</u>	Koh, J.Y., and Choi, D.W., "Quantitative determination of glutamate mediated cortical neuronal injury in cell culture by lactate dehydrogenase efflux assay," <i>J. Neurosci. Meth.</i> 20:83-90, Elsevier Science (May 1987)

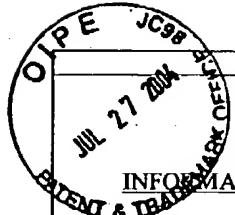
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*Alunesa M. Sheppard*

DATE CONSIDERED

*9/27/04*

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<i>Q/S</i>	AR	<u>28</u>	Kotaki, H., et al., "Intestinal Absorption and Metabolism of Clioquinol in the Rat," <i>J. Pharmacobiodyn.</i> 6:881-887, Pharmaceutical Society Of Japan (November 1983)
<i>Q/S</i>	AS	<u>28</u>	Kuo, Y-M., et al., "Water-soluble A $\beta$ (N-40, N-42) Oligomers in Normal and Alzheimer Disease Brains," <i>J. Biol. Chem.</i> 271:4077-4081, American Society for Biochemistry and Molecular Biology (February 1996)
<i>Q/S</i>	AT	<u>28</u>	Landers, J.W., and Zak, B., "Determination of Serum Copper and Iron in a Single Small Sample," <i>Am. J. Clin. Pathol.</i> 29:590-592, American Society of Clinical Pathologists (June 1958)

EXAMINER	<i>Almeria Y - Sheikh</i>	DATE CONSIDERED	<u>9/27/04</u>
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Q/S</i>	AR	29	Lindeman, R.D., <i>et al.</i> , "Myocardial zinc metabolism in experimental myocardial infarction," <i>J. Lab. Clin. Med.</i> 81:194-204, Mosby-Year Book (February 1973)
<i>Q/S</i>	AS	29	Linert, W., <i>et al.</i> , "Dopamine, 6-hydroxydopamine, iron, and dioxygen- their mutual interaction and possible implication in the development of Parkinson's disease," <i>Biochim. Biophys. Acta</i> 1316:160-168, Elsevier (1996)
<i>Q/S</i>	AT	29	Lockhart, B.P., <i>et al.</i> , "Inhibitors of free radical formation fail to attenuate direct beta-amyloid <sub>25-35</sub> peptide-mediated neurotoxicity in rat hippocampal cultures," <i>J. Neurosci. Res.</i> 39:494-505, Wiley Interscience (November 1994)

EXAMINER

*Nunea Y. Phiehl*

DATE CONSIDERED

*9/27/04*

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#### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	30	Lohr, J.B., "Oxygen Radicals and Neuropsychiatric Illness," <i>Arch. Gen. Psychiatry</i> 48:1097-1106, American Medical Association (December 1991)
	AS	30	Maggio, J.E., <i>et al.</i> , "Zinc and Alzheimer's Disease," <i>Science</i> 268:1920-1921, American Association for the Advancement of Science (June 1995)
	AT	30	Mantyh, P.W., <i>et al.</i> , "Aluminum, Iron, and Zinc Ions Promote Aggregation of Physiological Concentrations of $\beta$ -Amyloid Peptide," <i>J. Neurochem.</i> 61:1171-1174, Blackwell Science (September 1993)

EXAMINER	<i>Shaneen Y. Puech</i>	DATE CONSIDERED	<i>9/27/04</i>
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>g/s</i>	AR	<u>31</u>	Markesberry, W.R., "Oxidative Stress Hypothesis in Alzheimer's Disease," <i>Free Radic. Biol. Med.</i> 23:134-147, Elsevier Science (1997)
<i>g/s</i>	AS	<u>31</u>	Masters, C.L., <i>et al.</i> , "Amyloid plaque core protein in Alzheimer disease and Down syndrome," <i>Proc. Natl. Acad. Sci. USA</i> 82:4245-4249, National Academy of Sciences (June 1985)
<i>g/s</i>	AT	<u>31</u>	Masters, C.L., <i>et al.</i> , "Neuronal origin of a cerebral amyloid: neurofibrillary tangles of Alzheimer's disease contain the same protein as the amyloid of plaque cores and blood vessels," <i>EMBO J.</i> 4:2757-2763, Oxford University Press (November 1985)

EXAMINER

*Alvin M. Sheehan*

DATE CONSIDERED

*9/27/04*

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<i>af</i>	AR	<u>32</u>	Maury, C.P.J., "Biology of Disease: Molecular Pathogenesis of $\beta$ -Amyloidosis in Alzheimer's Disease And Other Cerebral Amyloidoses," <i>Lab. Invest.</i> 72:4-16, Lippincott Williams & Wilkins (January 1995)
<i>af</i>	AS	<u>32</u>	McGeer, P.L., and McGeer, E.G., "The inflammatory response system of brain: implications for therapy of Alzheimer and other neurodegenerative diseases," <i>Brain Res. Rev.</i> 21:195-218, Elsevier Science B.V (September 1995)
<i>af</i>	AT	<u>32</u>	Mecocci, P., <i>et al.</i> , "Oxidative Damage to Mitochondrial DNA Shows Marked Age-dependent Increases in Human Brain," <i>Ann. Neurol.</i> 34:609-616, Wiley-Liss (October 1993)

EXAMINER

*Dunera Y-Sherub*

DATE CONSIDERED

*9/27/04*

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0609.4540003/TJS/FRC

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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>g/s</i>	AR	<u>33</u>	Menkin, V., "Studies on Inflammation. X. The Cytological Picture of an Inflammatory Exudate in Relation to its Hydrogen Ion Concentration," <i>Am. J. Pathol.</i> 10:193-210, American Society for Investigative Pathology (March 1934)
<i>g/s</i>	AS	<u>33</u>	Michikawa, M., et al., "Oxygen Radical-Induced Neurotoxicity in Spinal Cord Neuron Cultures," <i>J. Neurosci. Res.</i> 37:62-70, Wiley Interscience (January 1994)
<i>g/s</i>	AT	<u>33</u>	Milanino, R., et al., "Copper and the Inflammatory Process," <i>Advances in Inflammation Research</i> 1:281-291, Raven Press (1979)

EXAMINER	<i>Glennca Y. Phieck</i>	DATE CONSIDERED	<i>9/27/04</i>
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	AP						Yes
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<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
<i>g/s</i>	AR	<u>34</u>	Moir, R.D., et al., "Relative Increase in Alzheimer's Disease of Soluble Forms of Cerebral A $\beta$ Amyloid Protein Precursor Containing the Kunitz Protease Inhibitory Domain," <i>J. Biol. Chem.</i> 273:5013-5019, American Society for Biochemistry and Molecular Biology (February 1998)				
<i>g/s</i>	AS	<u>34</u>	Mok, S.S., et al., "A Novel Metalloprotease in Rat Brain Cleaves the Amyloid Precursor Protein of Alzheimer's Disease Generating Amyloidogenic Fragments," <i>Biochemistry</i> 36:156-163, American Chemical Society (January 1997)				
<i>g/s</i>	AT	<u>34</u>	Multhaup, G., et al., "Interaction between the zinc(II) and the heparin binding site of the Alzheimer's disease $\beta$ A4 amyloid precursor protein (APP)," <i>FEBS Lett.</i> 355:151-154, Elsevier Science B.V. (November 1994)				

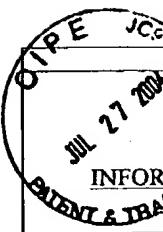
EXAMINER	<i>Guinea Y. Reich</i>	DATE CONSIDERED	<i>9/27/04</i>
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	AP						Yes No
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<i>of</i>	AR	<u>35</u>	Multhaup, G., <i>et al.</i> , "The Amyloid Precursor Protein of Alzheimer's Disease in the Reduction of Copper(II) to Copper(I)," <i>Science</i> 271:1406-1409, American Association for the Advancement of Science (March 1996)				
<i>of</i>	AS	<u>35</u>	Münch, G., <i>et al.</i> , "Advanced glycation endproducts in ageing and Alzheimer's disease," <i>Brain Res. Rev.</i> 23:134-143, Elsevier Science (February 1997)				
<i>of</i>	AT	<u>35</u>	Okada, H., <i>et al.</i> , "Effects of Metal-Containing Drugs Taken Simultaneously with Clioquinol Upon Clinical Features of SMON," <i>J. Toxicol. Sci.</i> 9:327-341, Doku Say-o Kenky-ukai (1984)				
EXAMINER <i>Aunee M. Sheikh</i>				DATE CONSIDERED <i>9/27/04</i>			
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>Q/S</i>	AR	<u>36</u>	Owen, C.A., Jr., "Uptake of <sup>67</sup> Cu by Ceruloplasmin <i>In Vitro</i> (38878)," <i>Proc. Soc. Exp. Biol. Med.</i> 149:681-682, Blackwell Science (July 1975)
<i>Q/S</i>	AS	<u>36</u>	Padmanabhan, G., et al., "Clioquinol," in <i>Analytical Profiles of Drug Substances</i> , Volume 18, Florey, K., ed., Academic Press, Inc., San Diego, CA, pp. 57-90 (1989)
<i>Q/S</i>	AT	<u>36</u>	Pérez, A.A., et al., "Alzheimer Amyloids A $\beta$ 1-40 and A $\beta$ 1-42 are Differentially Degraded by Insulin Degrading Enzyme (IDE) From Human Brain," <i>Soc. Neurosci. Abstracts</i> 23:821, Society for Neuroscience (October 1997)

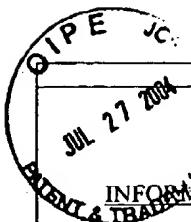
EXAMINER

*Alunisa Y.-Sheikh*

DATE CONSIDERED

*9/27/04*

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>g/s</i>	AR	<u>37</u>	Peters, G., and Rodgers, M.A.J., "Single-Electron Transfer from NADH Analogues to Singlet Oxygen," <i>Biochim. Biophys. Acta</i> 637:43-52, Elsevier (August 1981)				
<i>g/s</i>	AS	<u>37</u>	Pierce, J.E.S., et al., "Immunohistochemical Characterization of Alterations in the Distribution of Amyloid Precursor Proteins and β-Amyloid Peptide after Experimental Brain Injury in the Rat," <i>J. Neurosci.</i> 16:1083-1090, Society for Neuroscience (February 1996)				
<i>g/s</i>	AT	<u>37</u>	Potempa, L.A., et al., "Effect of Divalent Metal Ions and pH upon the Binding Reactivity of Human Serum Amyloid P Component, a C-reactive Protein Homologue, for Zymosan," <i>J. Biol. Chem.</i> 260:12142-12147, American Society for Biochemistry and Molecular Biology (October 1985)				

EXAMINER <i>Glenn A. Schmid</i>	DATE CONSIDERED <i>9/27/04</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

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O P E JUL 27 2004 PATENT & TRADEMARK OFFICE			ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
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U.S. PATENT DOCUMENTS							
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Q/S</i>	AR	<u>38</u>	Richardson, J.S., et al., "On the Possible Role of Iron-Induced Free Radical Peroxidation in Neural Degeneration in Alzheimer's Disease," <i>Ann. N.Y. Acad. Sci.</i> 648:326-327, New York Academy of Science (1992)				
<i>Q/S</i>	AS	<u>38</u>	Roberts, G.W., et al., "βA4 amyloid protein deposition in brain after head trauma," <i>Lancet</i> 338:1422-1423, Lancet Publishing Group (December 1991)				
<i>Q/S</i>	AT	<u>38</u>	Robinson, S.R. et al., "Most amyloid plaques contain ferritin-rich cells," <i>Alzheimer's Res.</i> 1:191-196, Rapid Science Publishers (1995)				

EXAMINER	<i>Amenea Y. Sheikh</i>	DATE CONSIDERED	<i>9/23/04</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>AS</i>	AR	39	Rogers, J., <i>et al.</i> , "Clinical trial of indomethacin in Alzheimer's disease," <i>Neurology</i> 43:1609-1611, Lippincott, Williams & Wilkins (August 1993)				
<i>AS</i>	AS	39	Roher, A.E., <i>et al.</i> , "Morphology and Toxicity of A $\beta$ -(1-42) Dimer Derived from Neuritic and Vascular Amyloid Deposits of Alzheimer's Disease," <i>J. Biol. Chem.</i> 271:20631-20635, American Society for Biochemistry and Molecular Biology (August 1996)				
<i>AT</i>	AT	39	Rumble, B. <i>et al.</i> , "Amyloid A4 Protein and Its Precursor in Down's Syndrome and Alzheimer's Disease," <i>N. Engl. J. Med.</i> 320:1446-1452, Massachusetts Medical Society (June 1989)				
EXAMINER <i>Aurelia N. Sheilah</i>					DATE CONSIDERED <i>9/23/04</i>		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

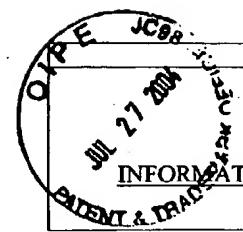
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>g/s</i>	AR	40	Sadowski, M. <i>et al.</i> , "Astrocyte and microglia reaction in Alzheimer's disease in the hippocampal formation- a quantitative analysis," <i>Alzheimer's Res.</i> 1:71-76, Rapid Science Publishers (1995)
<i>g/s</i>	AS	40	Sano, M., <i>et al.</i> , "A Controlled Trial of Selegiline, Alpha-Tocopherol, or Both as Treatment for Alzheimer's Disease," <i>N Engl. J. Med.</i> 336:1216-1222, Massachusetts Medical Society (April 1997)
<i>g/s</i>	AT	40	Sayre, L.M., "Alzheimer's Precursor Protein and the Use of Bathocuproine for Determining Reduction of Copper(II)," <i>Science</i> 274:1933-1934, American Association for the Advancement of Science (December 1996)

EXAMINER	<i>Jameca Y. Sheldell</i>	DATE CONSIDERED	<i>9/29/04</i>
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AL						Yes
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AN						Yes
AO						No
AP						Yes

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>AS</i>	AR	<u>41</u>	Schnabel, J., "New Alzheimer's Therapy Suggested," <i>Science</i> 260:1719-1720, American Association for the Advancement of Science (June 1993)
<i>AS</i>	AS	<u>41</u>	Schubert, D., and Chevion, M., "The Role of Iron in Beta Amyloid Toxicity," <i>Biochem. Biophys. Res. Commun.</i> 216:702-707, Academic Press (November 1995)
<i>AT</i>	AT	<u>41</u>	Selkoe, D.J., "Cell Biology of the Amyloid B-protein Precursor and the Mechanism of Alzheimer's Disease," <i>Annu. Rev. Cell Biol.</i> 10:373-403, Annual Reviews (1994).

EXAMINER	<i>Jasmeen H. Sheikh</i>	DATE CONSIDERED	<i>9/27/01</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>qfs</i>	AR	<u>42</u>	Seubert, P., <i>et al.</i> , "Isolation and quantification of soluble Alzheimer's $\beta$ -peptide from biological fluids," <i>Nature</i> 359:325-327, Nature Pub. Co. (September 1992)
<i>qfs</i>	AS	<u>42</u>	Shiraki, H., "Neuropathological aspects of the etiopathogenesis of subacute myelo-optic-neuropathy (SMON)," in <i>Handbook of Clinical Neurology. Intoxications of the Nervous System Part II</i> , Vinken, P. J. and Bruyn, G. W., eds., North-Holland Publishing Company, Amsterdam, Holland, pp.141-198 (1979)
<i>qfs</i>	AT	<u>42</u>	Shivers, B.D., <i>et al.</i> , "Alzheimer's disease amyloidogenic glycoprotein: expression pattern in rat brain suggests a role in cell contact," <i>EMBO J.</i> 7:1365-1370, Oxford University Press (1988)

EXAMINER <i>Yunera Y. Sheikh</i>	DATE CONSIDERED <i>9/23/04</i>
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AL						Yes No
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AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>q/s</i>	AR	<u>43</u>	Shoji, M., <i>et al.</i> , "Production of the Alzheimer Amyloid $\beta$ Protein by Normal Proteolytic Processing," <i>Science</i> 258:126-129, American Association for the Advancement of Science (October 1992)
<i>q/s</i>	AS	<u>43</u>	Sisodia, S.S., <i>et al.</i> , "Cellular and molecular biology of Alzheimer's disease and animal models," <i>Neuroimaging Clin. N. Am.</i> 5:59-68, W.B. Saunders Co. (February 1995)
<i>q/s</i>	AT	<u>43</u>	Skinner, M., <i>et al.</i> , "Observations on the amyloid-degrading activity of serum and its relationship to human neutrophil elastase," <i>Chem. Abst.</i> 101:453, Abstract No. 101:208677n, American Chemical Society (December 1984)

EXAMINER	<i>Surina Y. Shiekh</i>	DATE CONSIDERED	<i>9/27/04</i>
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AL						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>gfs</i>	AR	<u>44</u>	Smalheiser, N.R., and Swanson, D.R., "Indomethacin and Alzheimer's disease," <i>Neurology</i> 46:583, Lippincott, Williams & Wilkins (February 1996)
<i>gfs</i>	AS	<u>44</u>	Smith, C., <i>et al.</i> , "The molecular pathology of Alzheimer's disease: are we any closer to understanding the neurodegenerative process?," <i>Neuropathol. Appl. Neurobiol.</i> 20:322-38, Blackwell Scientific Publications (August 1994)
<i>gfs</i>	AT	<u>44</u>	Smith, M.A., <i>et al.</i> , "Radical AGEing in Alzheimer's disease," <i>Trends Neurosci.</i> 18:172-176, Elsevier/North-Holland (April 1995)

EXAMINER	<i>Almena Y. Sheikh</i>	DATE CONSIDERED	<i>9/27/04</i>
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		ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913				
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	AP						Yes No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
<i>g/s</i>	AR	<u>45</u>	Smith, M.A., et al., "Iron accumulation in Alzheimer disease is a source of redox-generated free radicals," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94:9866-9868, National Academy of Sciences (September 1997)				
<i>g/s</i>	AS	<u>45</u>	Sobue, I., "Clinical aspects of subacute myelo-optico-neuropathy (SMON)," in <i>Handbook of Clinical Neurology. Intoxications of the Nervous System Part II</i> , Vinken, P. J. and Bruyn, G. W., eds., North-Holland Publishing Company, Amsterdam, Holland, pp.115-139 (1979)				
<i>g/s</i>	AT	<u>45</u>	Soto, C., et al., " $\beta$ -sheet breaker peptides inhibit fibrillogenesis in a rat brain model of amyloidosis: Implications for Alzheimer's therapy," <i>Nat. Med.</i> 4:822-826, Nature Pub. Co. (July 1998)				
EXAMINER <i>Quimera Y. Sheikh</i>				DATE CONSIDERED <i>9/27/04</i>			
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AL						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>gf</i>	AR	<u>46</u>	Soto, C., <i>et al.</i> , "Structural Determinants of the Alzheimer's Amyloid $\beta$ -Peptide," <i>J. Neurochem.</i> 63:1191-1198, Blackwell Science (October 1994)
<i>gf</i>	AS	<u>46</u>	Stankovic, A., and Mitrovic, D.R., "Aluminum Salts Stimulate Luminol-Enhanced Chemiluminescence Production by Human Neutrophils," <i>Free Radic. Res. Comm.</i> 14:47-55, Harwood Academic Publishers (1991)
<i>gf</i>	AT	<u>46</u>	Tanzi, R.E., <i>et al.</i> , "The Wilson disease gene is a copper transporting ATPase with homology to the Menkes disease gene," <i>Nat. Gen.</i> 5:344-350, Nature Pub. Co. (December 1993)

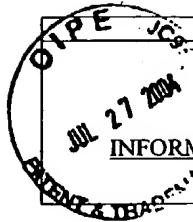
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*Quincea V. Sheinah*

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>qf8</i>	AR	<u>47</u>	Tanzi, R.E., et al., "Amyloid $\beta$ Protein Gene: cDNA, mRNA Distribution, and Genetic Linkage Near the Alzheimer Locus," <i>Science</i> 235:880-884, American Association for the Advancement of Science (February 1987)
<i>qf8</i>	AS	<u>47</u>	Tamura, Z., "Clinical Chemistry of Clioquinol," <i>Jpn. J. Med. Sci. Biol.</i> 28:69-77, National Institute of Health (1975)
<i>qf8</i>	AT	<u>47</u>	Tateishi, J., et al., "Strain-differences in dogs for neurotoxicity of clioquinol," <i>Lancet</i> I:1289-1290, Lancet Publishing Group (June 1972)

EXAMINER

*Almenara M. Cheikh*

DATE CONSIDERED

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Q/S</i>	AR	<u>48</u>	Tatcishi, J., et al., "Myeloneuropathy in dogs induced by iodoxyquinoline," <i>Neurology</i> 22:702-709, Lippincott, Williams & Wilkins (July 1972)				
<i>Q/S</i>	AS	<u>48</u>	Tateishi, J., et al., "Autoradiographic Distribution of <sup>131</sup> I-Clioquinol in Canine and Feline," <i>Folia Psychiatr. Neurol. Jpn.</i> 26:159-164, Japanese Society for Psychiatry and Neurology (1972)				
<i>Q/S</i>	AT	<u>48</u>	Tateishi, J., et al., "Experimental Myelo-optic Neuropathy Induced by Clioquinol," <i>Acta Neuropath. (Berl.)</i> 24:304-320, Springer Verlag (1973)				
EXAMINER	<i>Gurnea V. Neiboh</i>			DATE CONSIDERED <i>9/27/04</i>			
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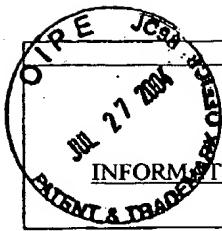
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<i>qfs</i>	AR	<u>49</u>	Tateishi, J., <i>et al.</i> , "Neurotoxicity of Clioquinol. Part III: Autoradiographic Distribution of Radioactive Clioquinol in Several Species of Animals," <i>Seishin Shinkeigaku Zasshi</i> . 75:187-196, Nihon Seishin Shinkei Gakkai (1973)
<i>qfs</i>	AS	<u>49</u>	Tateishi, J., <i>et al.</i> , "Neurotoxicity of Clioquinol in Laboratory Animals," <i>Lancet</i> 2:1095, Lancet Publishing Group (November 1972)
<i>qfs</i>	AT	<u>49</u>	Teller, J.K., <i>et al.</i> , "Presence of soluble amyloid $\beta$ -peptide precedes amyloid plaque formation in Down's Syndrome," <i>Nature Med.</i> 2:93-95, Nature Pub. Co. (January 1996)

EXAMINER *Dunica Y. Meek* DATE CONSIDERED *9/23/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0609.4540003/TJS/FRC	APPLICATION NO. 09/972,913
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#### U.S. PATENT DOCUMENTS

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#### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

#### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>qf</i>	AR	<u>50</u>	Terhune, M.W., and Sandstead, H.H., "Decreased RNA Polymerase Activity in Mammalian Zinc Deficiency," <i>Science</i> 177:68-69, American Association for the Advancement of Science (July 1972)
<i>qf</i>	AS	<u>50</u>	Thomas, T., et al., "β-Amyloid-mediated vasoactivity and vascular endothelial damage," <i>Nature</i> 380:168-171, Nature Pub. Co. (March 1996)
<i>qf</i>	AT	<u>50</u>	Tomiyama, T., et al., "Rifampicin Prevents the Aggregation and Neurotoxicity of Amyloid β Protein In Vitro," <i>Biochem. Biophys. Res. Comm.</i> 204:76-83, Academic Press (October 1994)

EXAMINER

*Almeera Y. Sheikh*

DATE CONSIDERED

*9/27/04*

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FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

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09/972,913FIRST NAMED INVENTOR  
Bush *et al.*FILING DATE  
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## U.S. PATENT DOCUMENTS

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AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AS</i>	AR	<u>51</u>	Tomiyama, T., <i>et al.</i> , "Inhibition of Amyloid $\beta$ Protein Aggregation and Neurotoxicity by Rifampicin," <i>J. Biol. Chem.</i> 271:6839-6844, American Society for Biochemistry and Molecular Biology (March 1996)
<i>AS</i>	AS	<u>51</u>	Thompson, C.M. <i>et al.</i> , "Regional Brain Trace-Element Studies in Alzheimer's Disease," <i>Neurotoxicology</i> 9:1-8, Elsevier Science (1988)
<i>AT</i>	AT	<u>51</u>	Tomski, S.J., and Murphy, R.M., "Kinetics of Aggregation of Synthetic $\beta$ -Amyloid Peptide," <i>Arch. Biochem. Biophys.</i> 294:630-638, Academic Press (May 1992)

EXAMINER	DATE CONSIDERED
<i>Anneka M. Deible</i>	<i>9/27/04</i>

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>q/s</i>	AR	<u>52</u>	Treuhhaft, P.S., and McCarty, D.J., "Synovial Fluid pH, lactate, Oxygen and Carbon Dioxide Partial Pressure in Various Joint Diseases," <i>Arthritis Rheum.</i> 14:475-484, Wiley-Liss (July-August 1971)
<i>q/s</i>	AS	<u>52</u>	Van Nostrand, W.E., "Zinc (II) Selectively Enhances the Inhibition of Coagulation Factor XIa by Protease Nexin-2/Amyloid $\beta$ -Protein Precursor," <i>Thromb. Res.</i> 78:43-53, Pergamon Press (April 1995)
<i>q/s</i>	AT	<u>52</u>	Warren, P.J., et al., "The Distribution of Copper in Human Brain," <i>Brain</i> , 83:709-717, Oxford University Press (1960)

EXAMINER	<i>Amelia Y. Sheikh</i>	DATE CONSIDERED	<i>9/29/04</i>
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AN						Yes No
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AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>af</i>	AR	<u>53</u>	Weismann, K., and Knudsen, L., "Effects of Penicillamine and Hydroxyquinoline on Absorption of Orally Ingested <sup>65</sup> Zinc in the Rat," <i>J. Invest. Dermatol.</i> 71:242-244, Blackwell Science (October 1978)
<i>af</i>	AS	<u>53</u>	Wood, S.J., <i>et al.</i> , "Physical, Morphological and Functional Differences between pH 5.8 and 7.4 Aggregates of the Alzheimer's Amyloid Peptide A $\beta$ ," <i>J. Mol. Biol.</i> 256:870-877, Academic Press (March 1996)
<i>af</i>	AT	<u>53</u>	Yates, C.M., <i>et al.</i> , "Enzyme Activities in Relation to pH and Lactate in Postmortem Brain in Alzheimer-Type and Other Dementias," <i>J. Neurochem.</i> 55:1624-1630, Blackwell Science (November 1990)

EXAMINER

*Nimera Y. Sheikh*

DATE CONSIDERED

*9/28/04*

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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	54	Zagorski, M.G., and Barrow, C.J., "NMR Studies of Amyloid $\beta$ -Peptides: Proton Assignments, Secondary Structure, and Mechanism of an $\alpha$ -Helix $\rightarrow$ $\beta$ -Sheet Conversion for a Homologous, 28-Residue, N-Terminal Fragment," <i>Biochemistry</i> 31:5621-5631, American Chemical Society (June 1992)
	AS	54	Beal, M.F., "Energy, Oxidative Damage, and Alzheimer's Disease: Clues to the Underlying Puzzle," <i>Neurobiol. Aging</i> 15:S171-S174, Pergamon Press (1994)
	AT	54	Markesberry, W.R., and Ehmann, W.D., "Brain Trace Elements in Alzheimer Disease," Chapter 22 in <i>Alzheimer Disease</i> , Terry, R.D. <i>et al.</i> , eds., Raven Press, Ltd., New York (1994)

EXAMINER	<i>Dunessa H Sheikh</i>	DATE CONSIDERED	<i>9/27/04</i>
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	AN						Yes
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	AP						Yes
							No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

Q/S	AR	55	Soto, C., <i>et al.</i> , "Inhibition of Alzheimer's Amyloidosis by Peptides That Prevent $\beta$ -Sheet Conformation," <i>Biochem. Biophys. Res. Comm.</i> 226:672-680, Academic Press (September 1996)
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EXAMINER	<i>Junica Y. Sheikh</i>	DATE CONSIDERED	<i>9/27/04</i>
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